

PCG-GRX520/GRX520K/GRX520P/GRX560/GRX560K/ PCG-GRX560P/GRX580/GRX580K/GRX580P/**GRX650**

SERVICE MANUAL

For American Area

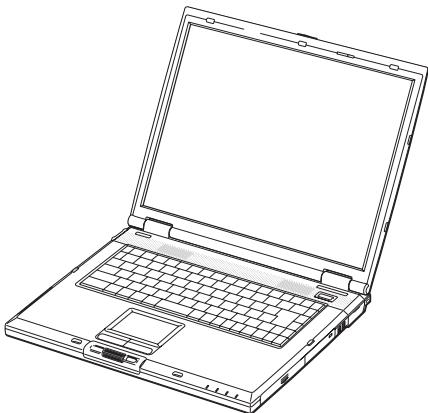
US Model

Canadian Model

Ver 2-2002I

Revision History

Lineup : PCG-GRX580P
PCG-GRX580K
PCG-GRX580
PCG-GRX560P
PCG-GRX560K
PCG-GRX560
PCG-GRX520P
PCG-GRX520K
PCG-GRX520
PCG-GRX650



Illust : PCG-GRX580P



S400



- Design and specifications are subject to change without notice.

NOTEBOOK COMPUTER

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Caution Markings for Lithium/Ion Battery - The following or similar texts shall be provided on battery pack of equipment or in both the operating and the service instructions.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

CAUTION: The battery pack used in this device may present a fire or chemical burn hazard if mistreated. Do not disassemble, heat above 100°C (212°F) or incinerate.

Dispose of used battery promptly.

Keep away from children.

CAUTION: Changing the back up battery.

- Overcharging, short circuiting, reverse charging, multilatation or incineration of the cells must be avoided to prevent one or more of the following occurrences; release of toxic materials, release of hydrogen and/or oxygen gas, rise in surface temperature.
- If a cell has leaked or vented, it should be replaced immediately while avoiding to touch it without any protection.

+++++

Service and Inspection Precautions

1. Obey precautionary markings and instructions

Labels and stamps on the cabinet, chassis, and components identify areas requiring special precautions. Be sure to observe these precautions, as well as all precautions listed in the operating manual and other associated documents.

2. Use designated parts only

The set's components possess important safety characteristics, such as noncombustibility and the ability to tolerate large voltages. Be sure that replacement parts possess the same safety characteristics as the originals. Also remember that the Δ mark, which appears in circuit diagrams and parts lists, denotes components that have particularly important safety functions; be extra sure to use only the designated components.

3. Always follow the original design when mounting parts and routing wires

The original layout includes various safety features, such as inclusion of insulating materials (tubes and tape) and the mounting of parts above the printer board. In addition, internal wiring has been routed and clamped so as to keep it away from hot or high-voltage parts. When mounting parts or routing wires, therefore, be sure to duplicate the original layout.

4. Inspect after completing service

After servicing, inspect to make sure that all screws, components, and wiring have been returned to their original condition. Also check the area around the repair location to ensure that repair work has caused no damage, and confirm safety.

5. When replacing chip components...

Never reuse components. Also remember that the negative side of tantalum capacitors is easily damaged by heat.

6. When handling flexible print boards...

- The temperature of the soldering-iron tip should be about 270C.
- Do not apply the tip more than three times to the same pattern.
- Handle patterns with care; never apply force.

Caution: Remember that hard disk drives are easily damaged by vibration. Always handle with care.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

**LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE Δ SUR LES
DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT
CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE
REEMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY
DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU
DANS LES SUPPÉMENTS PUBLIÉS PAR SONY.**

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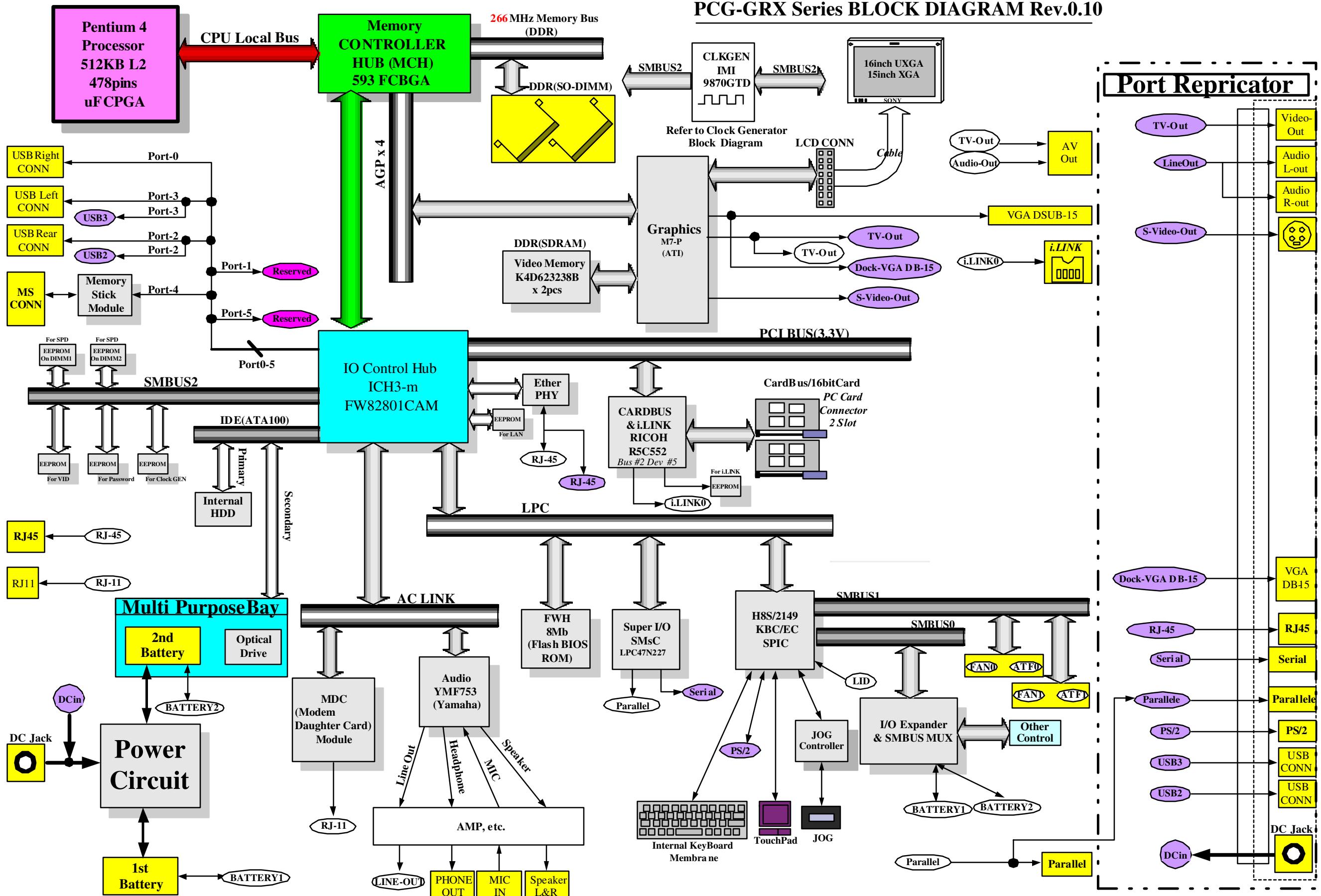
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History of the changes is shown as the
“Revision History” at the end of this data.

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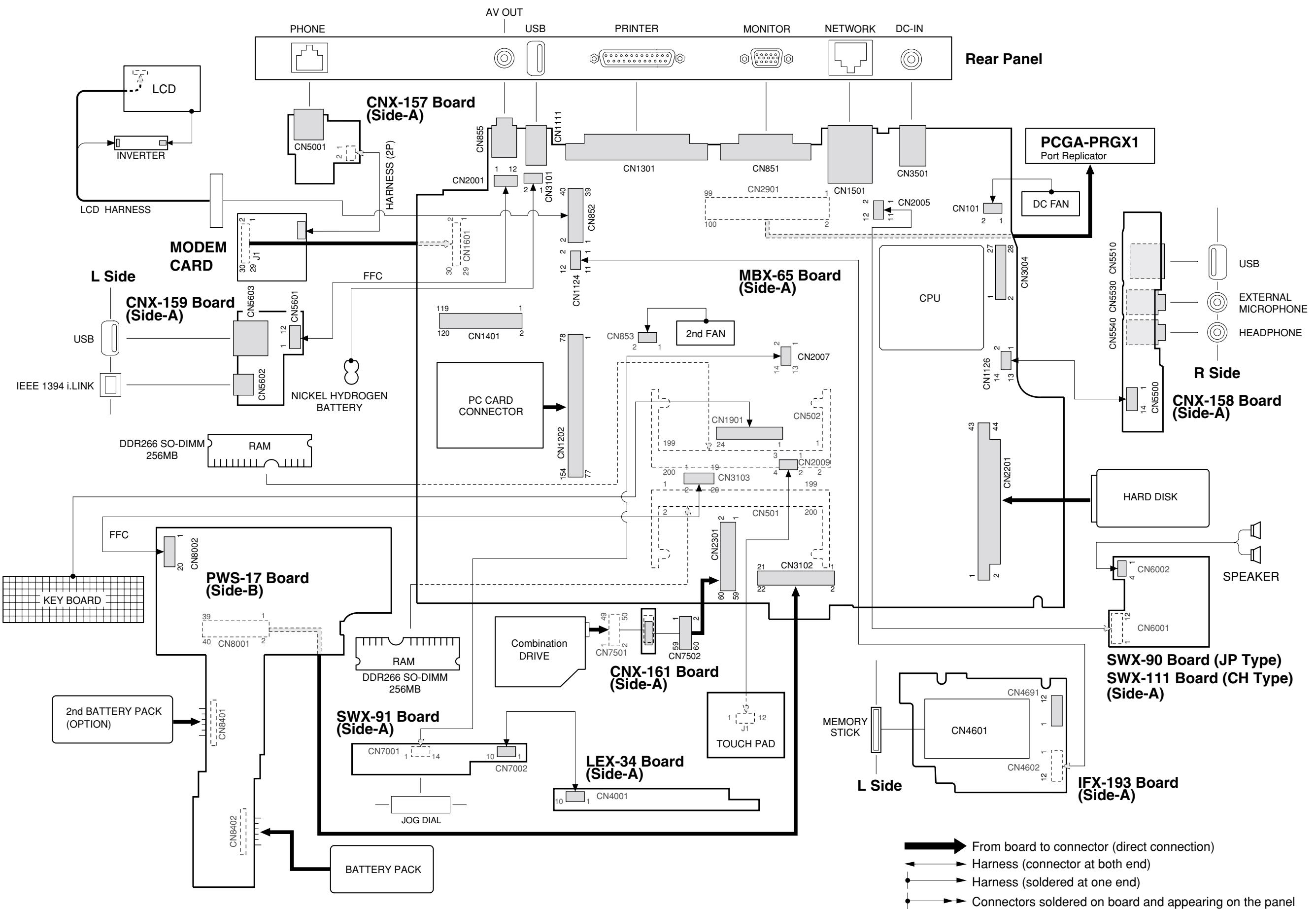
CHAPTER 1.

BLOCK DIAGRAM



CHAPTER 2.

FRAME HARNESS DIAGRAM



- From board to connector (direct connection)
- ↔ Harness (connector at both end)
- Harness (soldered at one end)
- Connectors soldered on board and appearing on the panel

CHAPTER 3.

EXPLODED VIEWS AND PARTS LIST

NOTE:

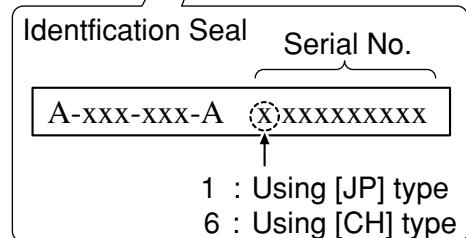
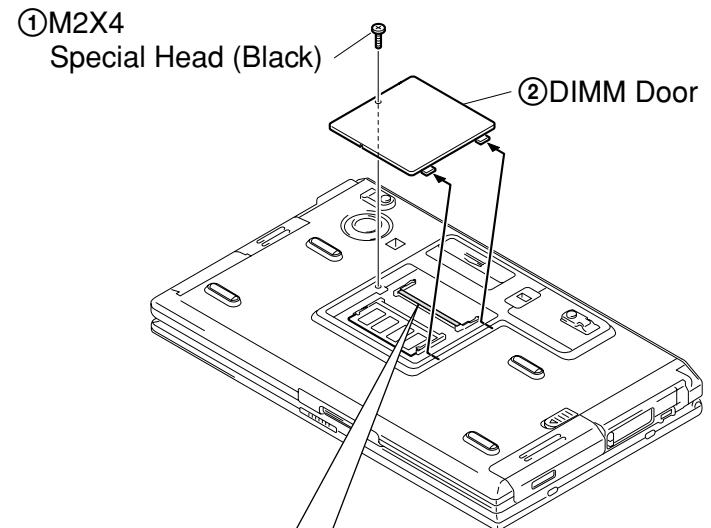
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- When two or more parts are shown in parallel, use the part described first as the main part.
- The indication [CH] is used for identification of part type.
- Regarding the boards of this model, the discrete parts on the boards cannot be replaced. However, Some connectors can be replaced.

The components identified by mark \triangle or dotted line with mark \triangle are critical for safety. Replace only with part number specified.
 Les composants identifiés par une marque \triangle sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

How to use properly the repair parts.

There are some parts that use the 2 types ; the [CH] parts or alternately the [JP] parts, in this series.
 Use the [CH] repair parts for the [CH] type product, vice versa.

[How to identify the parts]



Identification seal is attached on the expansion memory connector.

[Repair part description example]

Ref.No.	Part No.	Description
---------	----------	-------------

999	A-8110-582-A	[CH]...MBX-65 ASSY (C) (S)
999	4-8067-424-A	[JP]...MBX-65 ASSY (S)

*About Repair level of mounted board.

JP type... Component level service is possible. Refer to this manual for details.

CH type... Do not execute the component level service in principle.

However, some of the connectors can be repaired by the component level service.

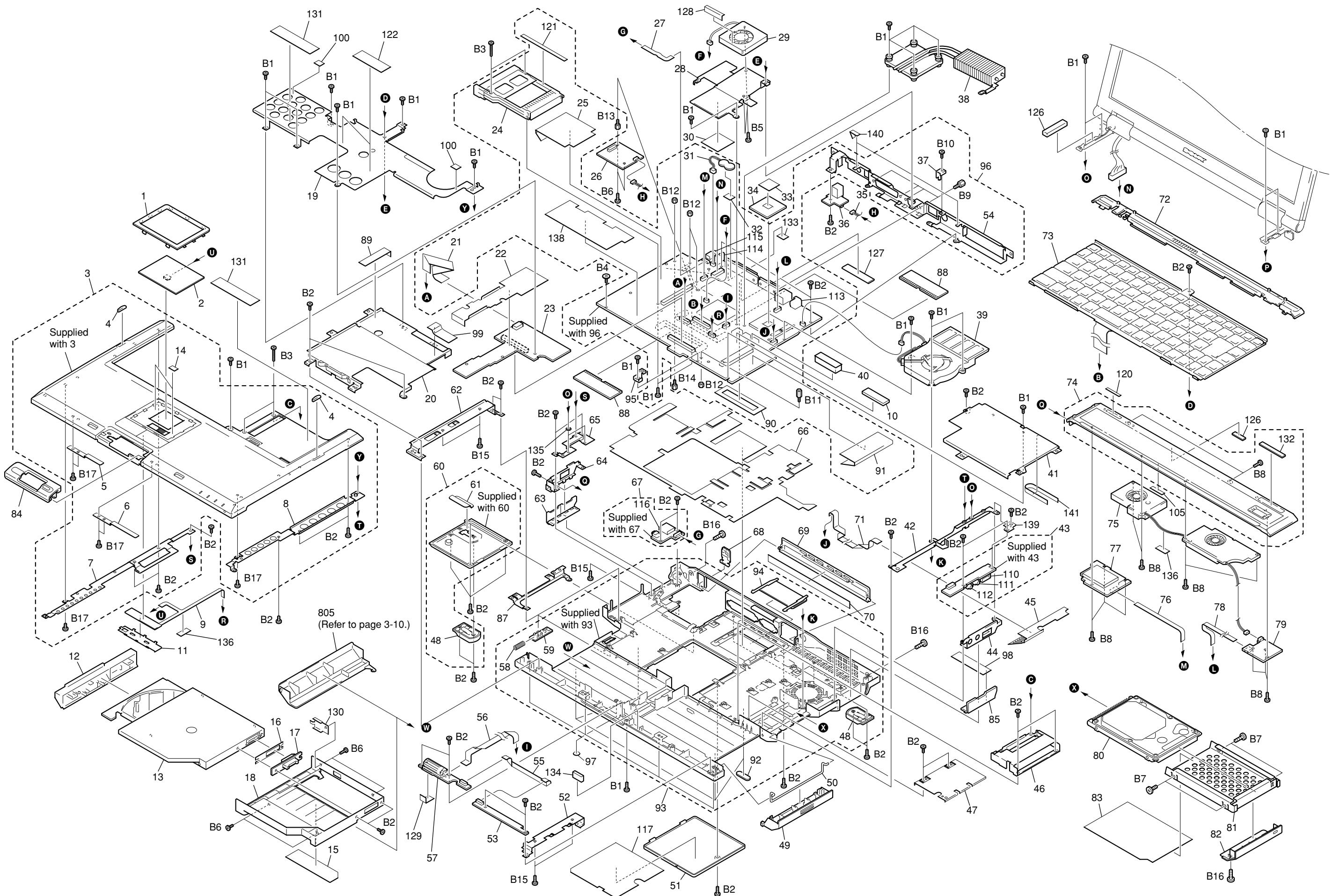
Refer to “Connector Section” of this manual for details.

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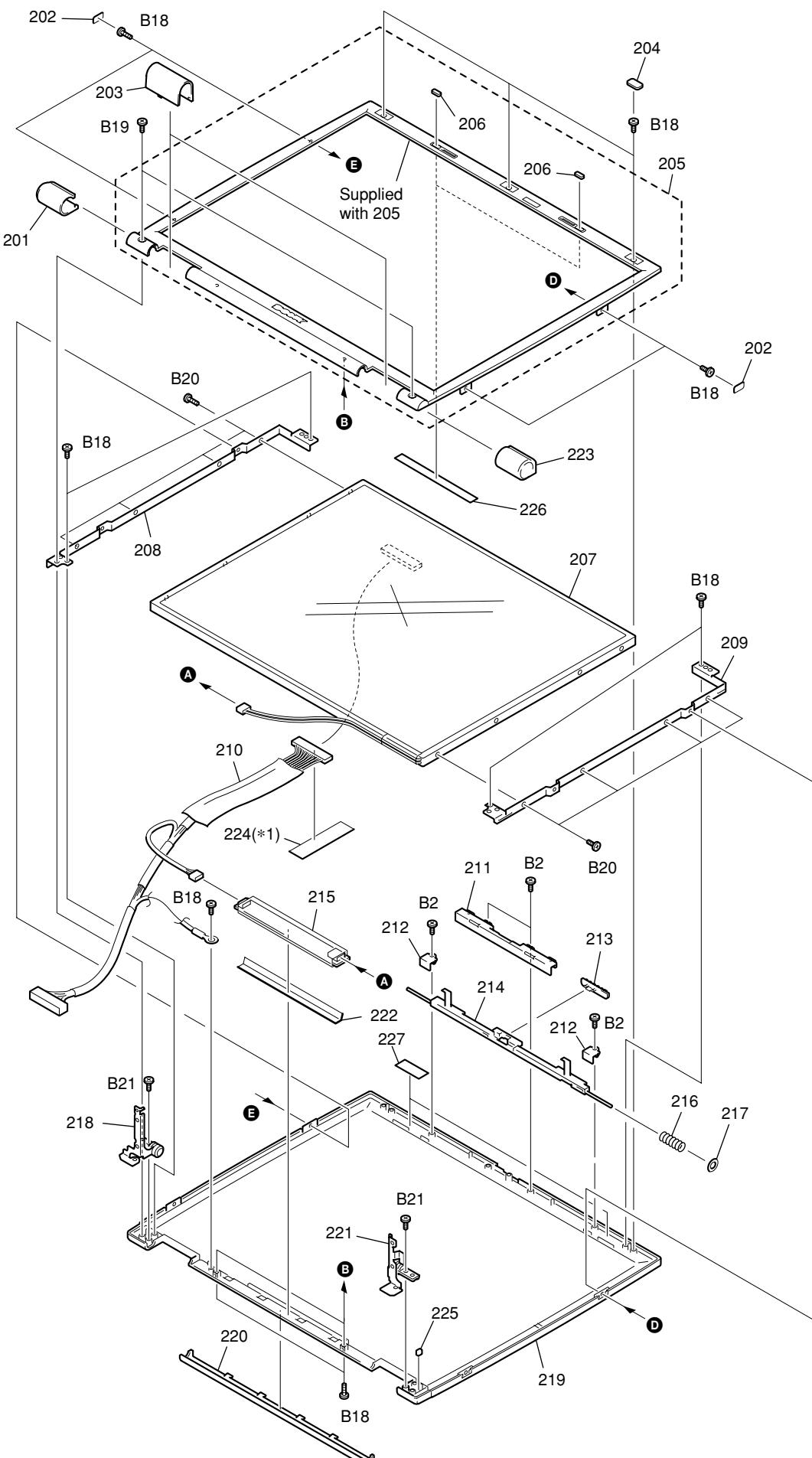
3-1. Main Section

Ref.No.	Part No.	Description	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description	Ref.No.	Part No.	Description
1	4-660-888-01	ESCUSHON TCHPAD	* 54	X-4624-529-2	[JP]...ASSY BRACKET IO	111	1-793-162-11	[JP]...JACK, SMALL TYPE	B1	4-641-726-41	SCREW (M2), SPECIAL HEAD
2	1-796-166-21	PAD, TOUCH	* 54	X-4624-902-1	[CH]...ASSY BRACKET IO	112	1-695-514-21	[JP]...JACK (SMALL TYPE) 1P	B2	4-641-726-12	SCREW (M2), SPECIAL HEAD
3	X-4624-531-4	ASSY PALMREST	55	1-823-725-12	CABLE, FLEXIBLE FLAT	113	1-779-745-21	[JP]...JACK, DC	B3	7-621-772-70	SCREW +B 2X14
4	4-660-904-01	CUSHION PALMREST	56	1-823-723-13	CABLE, FLEXIBLE FLAT	114	1-815-221-22	[JP]...CONNECTOR, USB (A)	B4	4-654-387-01	SCREW (MBX)
5	4-660-906-01	SPRING BLIND	57	A-8059-945-A	[JP]...COMPLETE PWB SWX-91	115	1-694-761-11	[JP]...JACK, SMALL TYPE	B5	4-641-656-12	SCREW (M2.5), 0 PLATE P
6	4-660-906-11	SPRING BLIND	57	A-8067-478-A	[CH]...SWX-91 ASSY (C) (S)	116	1-794-548-11	[JP]...CONNECTOR, USB (A)	B6	4-656-703-01	SCREW M2
* 7	4-660-900-01	PLATE ARM LEFT	58	4-653-745-01	SPRING BAY	117	4-662-984-01	INSULATOR DOOR DIMM	B7	4-635-301-01	SCREW M3X4
* 8	4-660-901-01	PLATE ARM RIGHT	59	4-659-630-02	LATCH BAY	120	4-664-060-31	(GRX560P)...LABEL ID (U)	B8	4-639-112-01	SCREW M2X4
9	1-761-518-11	PWB, FLEXIBLE PRINT	60	X-4624-530-2	ASSY DOOR MODEM	120	4-664-060-41	(GRX560)...LABEL ID (U)	B9	4-635-966-01	SCREW (HEX)
10	4-662-607-01	THERMAL SHEET FET	61	4-661-288-01	INSULATOR DOOR MODEM	120	4-664-060-51	(GRX560K)...LABEL ID (U)	B10	4-642-852-01	+B M2
* 11	4-660-903-01	BRACKET TOUCHPAD	* 62	4-660-448-01	SUB-FRAME BAY	120	4-664-060-61	(GRX520P)...LABEL ID (U)	B11	4-654-386-01	SPACER (PWS)
12	X-4624-620-2	ASSY BEZEL COMBO (CNC)	63	X-4624-538-2	ASSY DOOR L	120	4-664-060-71	(GRX520)...LABEL ID (U)	B12	7-622-205-05	NUT M2 TYPE2
13	8-458-828-71	RW DRIVE CRX810E-VN	64	4-660-822-03	BRACKET DOOR L	120	4-664-060-81	(GRX520K)...LABEL ID (U)	B13	4-651-989-01	SPACER (MBX)
14	4-664-561-01	ADHESIVE TAPE	65	4-660-452-01	HINGE BASE LEFT	120	4-665-654-11	(GRX580P)...LABEL ID (U)	B14	4-661-248-01	SPACER 4MM
15	4-662-272-01	LAVEL COMBO DRIVE	66	4-660-872-01	INSULATOR HEATSINK BOTTOM	120	4-665-654-21	(GRX580)...LABEL ID (U)	B15	4-641-726-81	SCREW (M2), SPECIAL HEAD
16	4-654-837-01	SHEET BAY BOARD	67	A-8059-941-A	[JP]...COMPLETE PWB CNX-159	120	4-665-654-31	(GRX580K)...LABEL ID (U)	B16	4-654-811-01	SCREW M3
17	A-8059-942-A	[JP]...COMPLETE PWB CNX-161	67	A-8067-476-A	[CH]...CNX-159 ASSY (C) (S)	120	4-665-654-51	(GRX650)...LABEL ID (U)	B17	4-657-192-01	SCREW, TAPPING, SPECIAL
17	A-8067-477-A	[CH]...CNX-161 ASSY (C) (S)	68	4-660-544-02	CAP MODEM	121	4-663-828-02	SPACER PC CARD			
18	4-660-860-03	CASE BAY	69	4-660-864-02	DOOR IO	122	4-663-827-01	CUSHION KEYBOARD			
19	X-4624-533-2	ASSY PLATE KEYBOARD	70	4-660-874-01	LABELIO	126	4-663-230-02	CUSHION HOOD			
20	X-4624-528-1	ASSY BRACKET BAY	71	1-823-724-12	CABLE, FLEXIBLE FLAT	127	4-663-227-01	CUSHION IO			
21	1-823-721-12	CABLE, FLEXIBLE FLAT	72	4-660-887-02	DISPLAY BASE	128	4-664-048-01	INSULATOR FAN			
22	4-661-289-01	INSULATOR PWS	73	1-477-285-21	KEYBOARD UNIT (U)	129	4-664-308-02	SHEET JOG			
23	A-8059-944-A	[JP]...COMPLETE PWB PWS-17	74	X-4624-605-4	ASSY HOOD KEYBOARD	130	4-655-927-03	SPRING (DVD-ROM)			
23	A-8067-479-A	[CH]...PWS-17 ASSY (C) (S)	75	1-825-081-11	SPEAKER, (2.8CM) BOX WITH	131	4-664-285-01	CUSHION KEYBOARD R			
24	1-815-594-21	CONNECTOR, PC CARD(EJECT,RIGHT)	76	1-823-719-12	CABLE, FLEXIBLE FLAT	132	4-661-644-01	SHEET, EYE CONVERTER			
25	4-660-831-01	INSULATOR PCMCIA	77	A-8059-936-A	[JP]...COMPLETE PWB IFX-193	133	4-664-362-01	CUSHION IO LEFT			
26	1-761-380-23	CARD, MODEM	78	1-823-720-12	CABLE, FLEXIBLE FLAT	134	4-664-363-01	CUSHION SPRING BLIND R			
27	1-761-519-11	PWB, FLEXIBLE PRINT	79	A-8059-934-A	[JP]...COMPLETE PWB SWX-90	135	4-664-482-01	SPACER HINGE L			
* 28	4-660-852-02	HEATSINK GHC	79	A-8110-249-A	[CH]...COMPLETE PWB SWX-111A2	136	—————	FILAMENT TAPE (W12X30) (*1)			
* 29	1-763-828-11	2ND FAN	80	A-8059-666-A	(GRX580/GRX580P/GRX580K)...	138	4-665-909-01	INSULATOR BAY2			
30	4-660-836-01	THERMAL SHEET GHC	80		ASSY HDD 40GB (T,20,F) (S)	139	4-666-111-01	SHEET AUDIO GND			
31	1-756-281-11	BATTERY, NICKEL HYDROGEN	80	A-8059-344-A	(GRX520/GRX520P/GRX520K/	140	4-666-114-01	SHIELD TAPE BRACKET IO A			
32	4-642-711-01	SHEET (BATTERY), ADHESIVE			GRX560/GRX560P/GRX560K/GRX650)...	141	4-665-467-01	SPACER BATTERY (K)			
33	4-660-835-01	THERMAL SHEET CPU	* 81	4-653-799-02	BRACKET HDD						
34	6-702-112-01	(GRX580/GRX580P/GRX580K)...	82	X-4624-536-2	ASSY DOOR HDD						
34	6-702-111-01	IC RH80532GC029512 (P4 1700MHz)	83	4-653-801-02	SHEET HDD						
34	6-702-111-01	(GRX520/GRX520P/GRX520K/	84	X-4624-532-2	ASSY ESCUSHION JOG						
34	6-702-580-01	GRX650)...	85	X-4624-539-2	ASSY DOOR R						
35	1-960-827-61	HARNESS (2 PIN)	* 87	4-660-449-01	SUB-FRAME BOTTOM LEFT						
36	A-8059-939-A	[JP]...COMPLETE PWB CNX-157	88	6-600-080-01	IC M470L3224BT0-CB0						
36	A-8067-474-A	[CH]...CNX-157 ASSY (C) (S)	88	6-600-093-01	(DDR266 SO-DIMM 256MB)						
37	4-660-876-01	PLATE DC JACK	89	4-662-961-01	IC HYMD23M6466-H						
38	4-660-853-01	THERMAL FIN	90	4-654-953-01	(DDR266 SO-DIMM 256MB)						
* 39	1-763-829-11	CPU FAN	91	4-662-926-02	INSULATOR HDD PWB						
40	4-660-796-01	THERMAL SHEET COIL	92	4-660-868-01	FOOT FRONT						
41	4-660-445-02	BRACKET BATTERY	93	X-4624-527-4	ASSY BOTTOM						
* 42	X-4624-936-1	ASSY (SUBFRAME) (BOTTOM) (RIGHT)	94	4-660-866-02	DOOR PORT						
43	A-8059-940-A	[JP]...COMPLETE PWB CNX-158	95	4-662-798-01	PLATE GND PWS						
43	A-8067-475-A	[CH]...CNX-158 ASSY (C) (S)	96	A-8067-472-A	[JP]...MBX-65 ASSY (S)						
44	4-660-823-02	BRACKET DOOR R	96	A-8067-473-A	[CH]...MBX-65 (C) ASSY (S)						
45	4-661-272-02	INSULATOR BOARD AUDIO	97	4-654-380-21	CAP BAY						
* 46	4-660-905-01	HOLDER HDD	98	4-664-333-01	CUSHEET DOOR R						
* 47	4-660-451-01	PLATE GND HDD	99	4-664-547-01	SHEET FPC						
48	4-663-115-01	FOOT REAR FIXED	100	4-664-632-01	SPACER K						
49	4-660-861-02	DOOR BATTERY	105	4-664-561-01	ADHESIVE TAPE						
50	4-660-443-01	SPRING DOOR BATTERY	110	1-793-365-11	[JP]...CONNECTOR, USB (A)						
51	4-660-862-21	DOOR DIMM									
* 52	4-660-447-01	SUB-FRAME BATTERY									
53	A-8059-943-A	[JP]...COMPLETE PWB LEX-34									
53	A-8067-480-A	[CH]...LEX-34 ASSY (C) (S)									

The GRX650 uses only the [CH] Type parts and assemblies.
The [JP] Type parts and assemblies are not used.



3-2. LCD Section (GRX560/GRX560K/GRX560P/GRX580/GRX580K/GRX580P/GRX650) – Made by HI –



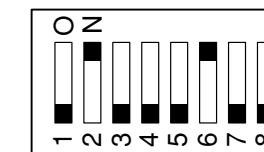
Ref. No.	Part No.	Description
201	4-660-847-01	CAP LCD L
202	4-660-851-01	LCD SCREW COVER S
203	4-660-897-01	COVER HINGE
204	4-660-850-01	LCD SCREW COVER T
205	X-4624-525-3	ASSY BEZEL
206	4-660-846-02	LATCH RUBBER
207	A-8059-922-A	ASSY LCD 16U (HI) (S)
* 208	4-660-839-02	BRACKET LCD L
* 209	4-660-840-02	BRACKET LCD R
210	1-961-573-12	HARNESS (LCD)
211	4-660-844-02	LATCH HOLDER LCD
212	4-660-828-01	LATCH GUIDE
213	4-660-907-01	LATCH BOTTOM
214	4-660-843-02	LATCH LEVER
215	1-477-101-11	INVERTER UNIT
216	4-663-929-02	SPRING (LCD) (16)
217	4-663-477-02	SPACER LATCH
* 218	X-4624-534-2	ASSY HINGE L
219	X-4624-847-1	ASSY DISPLAY (F)
220	4-660-849-02	CAP LCD C
* 221	X-4624-535-2	ASSY HINGE R
222	4-662-783-03	INSULATOR INVERTER
223	4-660-848-01	CAP LCD R
224		FILAMENT TAPE (W19X50) (*
225	4-664-545-01	SPACER (HINGE) (16) (R)
226	4-664-314-01	SHEET (LCD) (BEZEL UP)
227	4-664-062-01	SHEET LCD LATCH

<u>Ref. No.</u>	<u>Part No.</u>	<u>Description</u>
B2	4-641-726-12	SCREW (M2), SPECIAL HEAD
B18	4-645-214-61	GRIP, M2
B19	4-644-637-01	GRIP, M2 EG
B20	7-621-259-25	SCREW +P 2.6X4
B21	4-663-482-11	M2 SCREW (HARDENING)

*1 Use the FILAMENT TAPE

NOTE

Set the DIP switch on the MBX-65 board (Main board) to match with the LCD that is used in this computer.



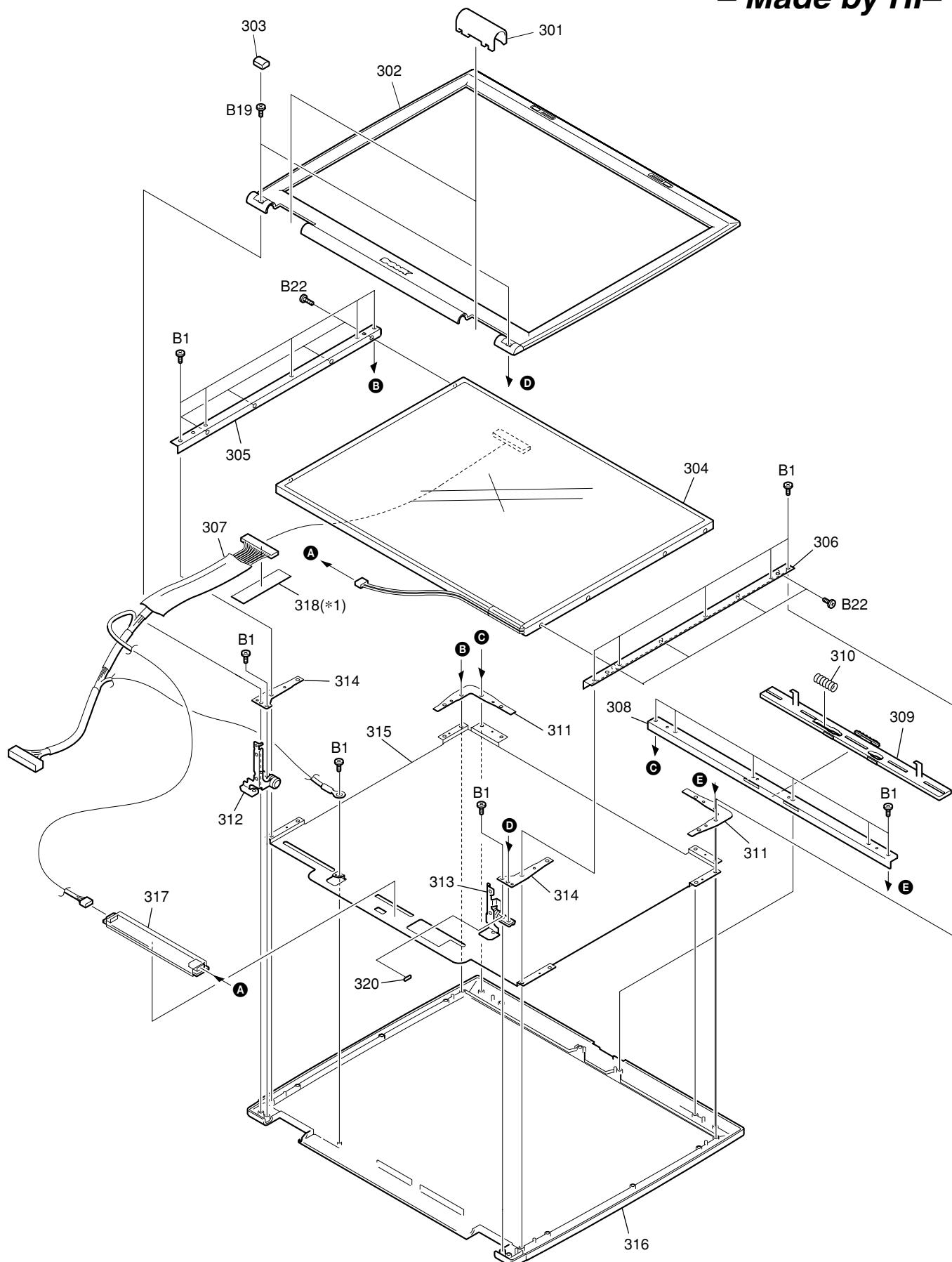
The upper position where ON indication is shown is the ON position. The lower position is the OFF position.

No.	1	2	3	4	5	6	7	8
ON/OFF	1	0	1	1	1	0	1	1

0 : ON 1 : OFF

3-3. LCD Section (GRX520/GRX520K/GRX520P)

– Made by HI –

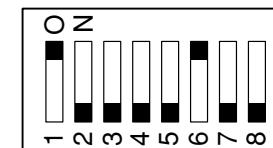


Ref.No.	Part No.	Description
301	4-660-897-01	COVER HINGE
302	X-4624-586-3	ASSY BEZEL DISPLAY 15
303	4-660-919-01	COVER SCREW LOWER 15
304	A-8067-507-A	ASSY LCD 15HI AP(S)
* 305	4-660-912-01	BRACKET LCD L 15
* 306	4-660-913-01	BRACKET LCD R 15
307	1-961-573-21	HARNESS (LCD)
* 308	4-660-914-01	BRACKET LCD UPPER 15
309	4-660-911-02	LATCH LEVER 15
310	4-653-745-01	SPRING BAY
* 311	4-660-916-01	PLATE LCD UPPER 15
* 312	X-4624-534-2	ASSY HINGE L 15
* 313	X-4624-535-2	ASSY HINGE R 15
* 314	4-660-915-01	PLATE LCD LOWER 15
315	4-660-918-01	SEALED LCD 15
316	X-4624-587-3	ASSY HOUSING DISPLAY 15
317	1-476-316-11	INVERTER UNIT
318		FILAMENT TAPE (W19X50) (*1)
320	4-664-546-01	SPACER (HINGE) (15) (R)
321	4-660-921-02	TAPE LCD 15
B1	4-641-726-41	SCREW (M2), SPECIAL HEAD
B19	4-644-637-01	GRIP, M2 EG
B22	4-641-726-81	SCREW (M2), SPECIAL HEAD

*1 Use the FILAMENT TAPE.

NOTE :

Set the DIP switch on the MBX-65 board (Main board) to match with the LCD that is used in this computer.



The upper position where ON indication is shown is the ON position. The lower position is the OFF position.

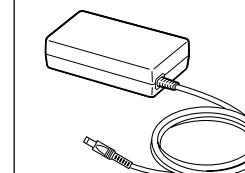
No.	1	2	3	4	5	6	7	8
ON/OFF	0	1	1	1	1	0	1	1

0 : ON 1 : OFF

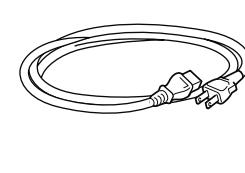
<u>Ref.No.</u>	<u>Part No.</u>	<u>Description</u>
ACCESORIES		

△ 801	1-477-205-41	ADAPTOR, AC
802	A-8067-482-A	BP2NX SKD (U) ASSY (S)
△ 803	1-757-562-21	CORD, POWER
804	4-660-884-02	WEIGHT SAVER (Refer to page 3-5.)
	4-664-802-01	QUICK START
	4-664-799-01	SPECIFICATION SHEET
	4-646-847-11	W2K FIRST STEP GUIDE

801
AC Adaptor (1)



803
Power Cord (1)



802
Battery Pack (1)



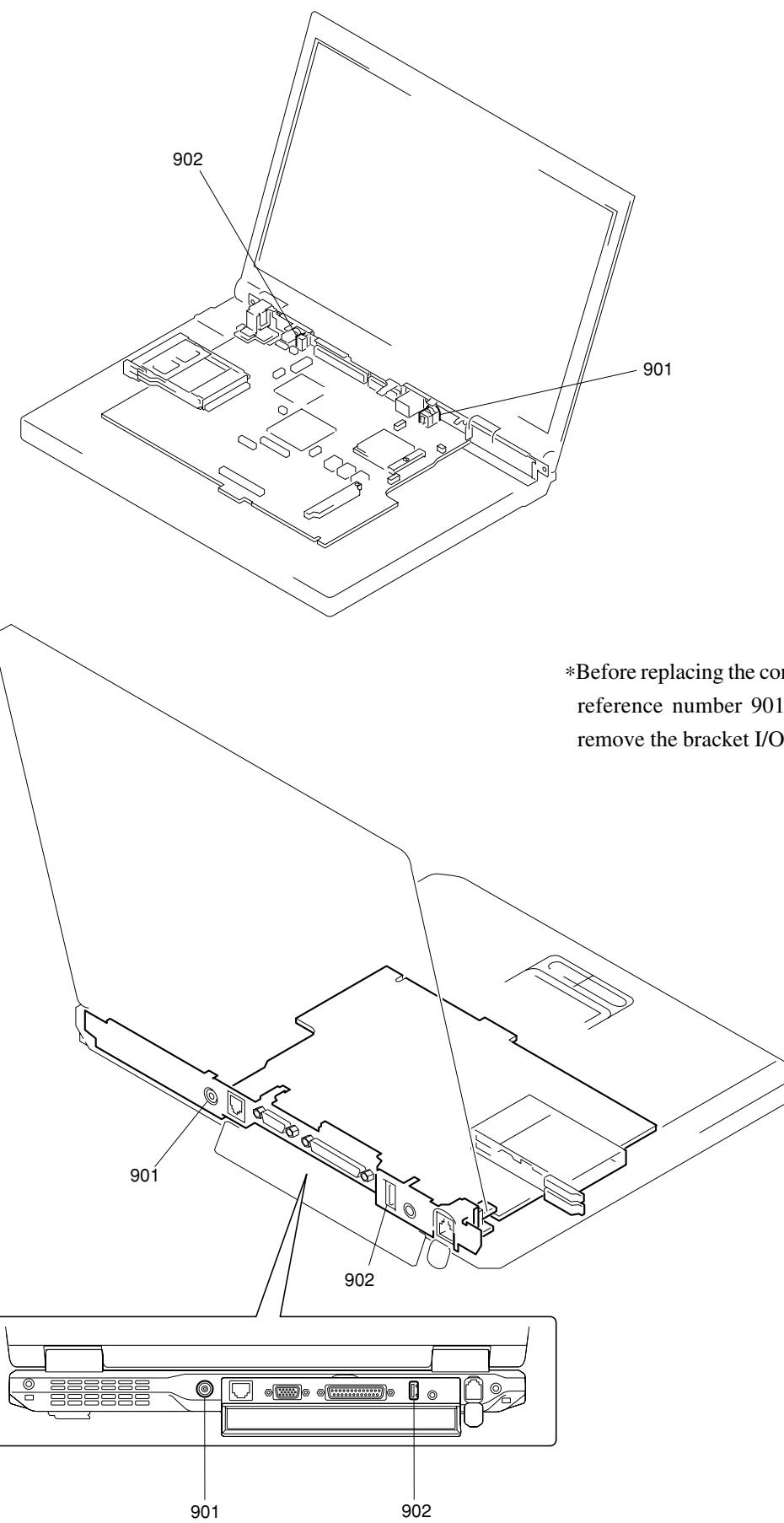
804
Weight Saver (1)



The components identified by mark \triangle or dotted line with mark \triangle are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié

3-4. Connector Section (CH Type only)



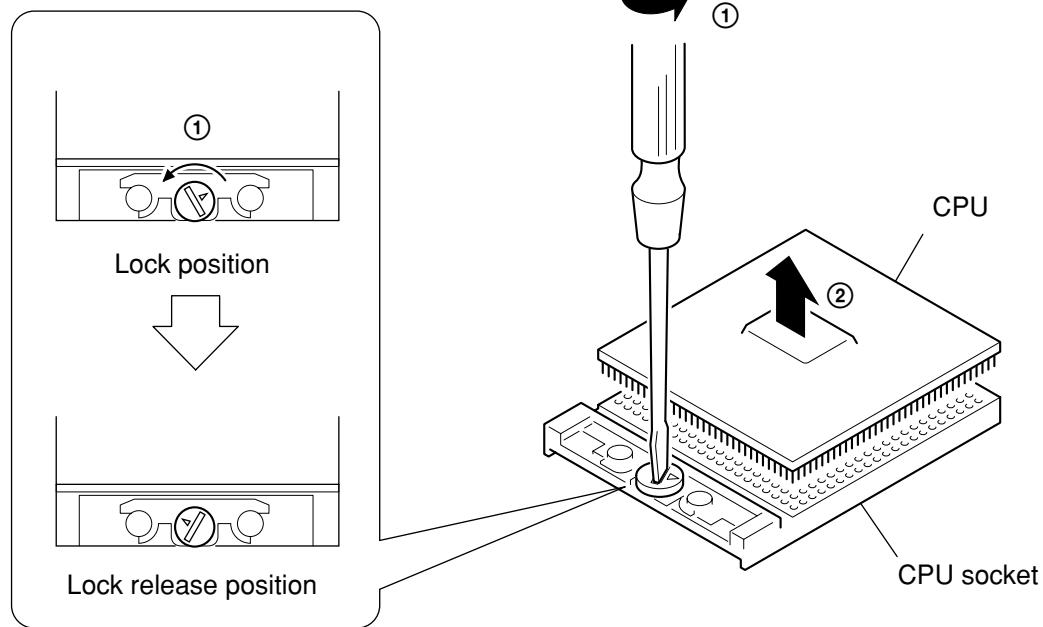
Ref. No.	Fig.	Part No.	Description
901		1-779-745-21 [CH] ...JACK, DC	DC IN connector
902		1-815-221-22 [CH] ...USB CONNECTOR (VERTICAL)	USB connector

* Among the parts that are used on the boards of this model, only the connectors that are shown in the list can be replaced.
(The parts other than the specified connectors cannot be replaced.)

4-1. Replacing the CPU

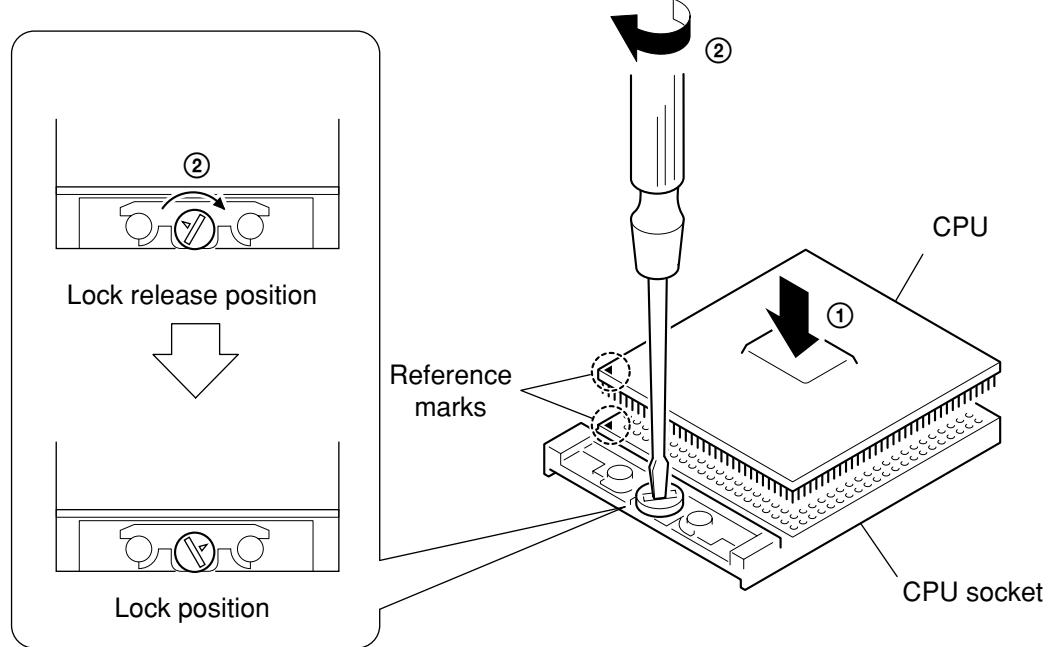
1. Removing the CPU

- ① Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock release position.
- ② Pull the CPU gently upward to lift it out of the CPU socket.



2. Installing the CPU

- ① Align the triangle reference mark of the CPU with that of the CPU socket and insert all the pins of the CPU to the corresponding holes of the CPU socket.
- ② Insert a flat-blade screwdriver into the notch as shown in the illustration and rotate it so that the protrusion comes to the lock position.



NOTE:

Rotate a flat-blade screwdriver to the lock position securely. If not, the operation of the CPU may become unstable.

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List of PCG-GRX Series (As of September, 2002)

Model Name	Service Manual Part No.
PCG-GRX590	
PCG-GRX570	
PCG-GRX550	9-874-524-01
PCG-GRX510	
PCG-GRX580P	
PCG-GRX580K	
PCG-GRX580	
PCG-GRX560P	
PCG-GRX560K	
PCG-GRX560	9-874-542-02
PCG-GRX520P	
PCG-GRX520K	
PCG-GRX520	
PCG-GRX650	

 : Additional Models

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Revision History

Suffix	Ver.	Date	Contents	QM No.
-01	Ver. 1	2002.06.10	First Edition	
-02	Ver. 2	2002.09.03	Front Page (Model Line Up), Page 3-3, Page 3-4, Page 3-7, Back Cover	2002_100AK#01
< Remarks >				

[Confidential]

PCG-GRX520/GRX520K/GRX520P/GRX560/GRX560K/
PCG-GRX560P/GRX580/GRX580K/GRX580P/GRX650 (AM)